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45809 7590 02/10/2009

SHOOK, HARDY & BACON L.L.P.
(c/o MICROSOFT CORPORATION)
INTELLECTUAL PROPERTY DEPARTMENT
2555 GRAND BOULEVARD
KANSAS CITY, MO 64108-2613

EXAMINER

REZA, MOHAMMAD W

ART UNIT

PAPER NUMBER

2436

DATE MAILED: 02/10/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/608,334

06/30/2003

Dario Bazan Bejarano

MFCP.102772

8771

TITLE OF INVENTION: SYSTEM AND METHOD FOR AUTOMATIC NEGOTIATION OF A SECURITY PROTOCOL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/11/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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45809 7590 02/10/2009

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(c/o MICROSOFT CORPORATION)
INTELLECTUAL PROPERTY DEPARTMENT
2555 GRAND BOULEVARD
KANSAS CITY, MO 64108-2613

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(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/608,334 06/30/2003 Dario Bazan Bejarano MFCP.102772 8771

TITLE OF INVENTION: SYSTEM AND METHOD FOR AUTOMATIC NEGOTIATION OF A SECURITY PROTOCOL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/11/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
REZA, MOHAMMAD W	2436	713-151000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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Date _____

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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/608,334	06/30/2003	Dario Bazan Bejarano	MFCP.102772	8771
45809	7590	02/10/2009	EXAMINER	
SHOOK, HARDY & BACON L.L.P. (c/o MICROSOFT CORPORATION) INTELLECTUAL PROPERTY DEPARTMENT 2555 GRAND BOULEVARD KANSAS CITY, MO 64108-2613			REZA, MOHAMMAD W	
			ART UNIT	PAPER NUMBER
			2436	
			DATE MAILED: 02/10/2009	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 763 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 763 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/608,334	BAZAN BEJARANO, DARIO	
	Examiner	Art Unit	
	MOHAMMAD W. REZA	2436	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/09/2008.
2. ☒ The allowed claim(s) is/are 1-12, 14-32, 49-60, and 62, renumbered as 1-44.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

/Mohammad W Reza/
Examiner, Art Unit 2436

DETAILED ACTION

1. This office correspondence is response to the applicant's after response filed on 10/09/2008.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Applicant's representative, Peter J. Hoeller (Reg. No. 61,468), and examiner arranged a telephone interview on January 26, 2009 and the interview agenda was to reach an agreement of allowance of claims 1-12, 14-32, 49-60, and 62 with examiner amendment would make to these claims as follows:

In the claims:

All the claims have been rewritten as follows:

1. (Currently Amended) A method for automatically negotiating a security protocol, comprising:
receiving a security authorization request to establish a secure connection between an internal node having a first protocol set and an external node having a second protocol set, wherein:
(1) the internal node is within a security-enabled domain comprising a centralized distributed directory that maintains security information for a plurality of nodes; and
(2) the external node is not included within the software-based, directory of nodes;

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comparing the first protocol set associated with the internal node to the second protocol set associated with the external node;

determining that the first node and the second node contain two or more security protocols in common;

selecting a preferred protocol from the two or more security protocols based on transfer speeds associated with the two or more security protocols, and bit depths of one or more encryption keys,

wherein the transfer speeds refer to the speeds that network data can be transferred using the two or more security protocols;

the bit depths of one or more encryption keys include the number of bits constituting the one or more encryption keys;

and automatically establishing a secure connection between the external node and the internal node based on the preferred protocol

2. (Original) A method according to claim 1, wherein the external node comprises at least one of a computer and a network-enabled wireless device.

3. (Original) A method according to claim 1, wherein the internal node comprises at least one of a client computer and a server.

4. (Original) A method according to claim 1, wherein the security-enabled domain comprises a distributed directory domain.

5. (Original) A method according to claim 1, wherein the security-enabled domain comprises a certificate-based domain.

6. (Original) A method according to claim 5, wherein the certificate-based

domain comprises a Kerberos-enabled domain.

7. (Original) A method according to claim 6, wherein the matching protocol comprises an X.509 certificate.

8. (Original) A method according to claim 1, wherein the security authorization request is generated by the external node.

9. (Previously Presented) A method according to claim 8, wherein the selected protocol is determined based on at least one of a set of criteria, the set of criteria comprising a transfer speed and a bit depth of keys

10. (Original) A method according to claim 1, wherein the security authorization request is generated by the internal node.

11. (Original) A method according to claim 10, wherein the step of receiving the security authorization request is executed by the external node.

12. (Original) A method according to claim 1, further comprising a step of terminating the secure connection when a session between the external node and the internal node is complete.

13. (Canceled).

14. (Original) A method according to claim 1, further comprising a step of selecting a protocol to use in establishing the secure connection when a plurality of matching protocols are found.

15. (Original) A method according to claim 1, further comprising a step of authenticating at least one of the internal node and the external node.

16. (Original) A method according to claim 15, wherein the step of authenticating

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comprises communicating a certificate to a certificate authority.

17. (Currently Amended) A system for automatically negotiating a security protocol, comprising:

an internal node, the internal node being included within a software-based, distributed directory of nodes, the internal node configured to store a first protocol set comprising one or more security protocols supported by the internal node;

a negotiation engine, the negotiation engine configured for:

(1) receiving a security authorization request to establish a secure connection between the internal node having the first protocol set and an external node which is not included within the software-based, directory of nodes and being external to the security-enabled domain, the external node configured to store a second protocol set comprising security protocols supported by the external node,

(2) comparing the first protocol set associated with the internal node to the second protocol set associated with the external node; (3) determining that the first protocol set and the second protocol set contain two or more security protocols in common,

(4) selecting a preferred protocol from the two or more security protocols based on at least one of transfer speeds associated with the two or more security protocols and bit depths of one or more encryption keys, wherein:

a) the transfer speeds include the speeds that network data can be transferred using the two or more security protocols, and

b) the bit depths of one or more encryption keys include the number of bits constituting the one or more encryption keys; and

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(6) automatically establishing a secure connection between the external node and the internal node based on the preferred protocol.

18. (Original) A system according to claim 17, wherein the external node comprises at least one of a computer and a network-enabled wireless device.

19. (Previously Presented) A system according to claim 17, wherein the selected protocol is determined based on at least one member of a set of criteria, the set of criteria comprising a transfer speed and a bit depth of keys.

20. (Original) A system according to claim 17, wherein the security-enabled domain comprises a distributed directory domain.

21. (Original) A system according to claim 17, wherein the security-enabled domain comprises a certificate-based domain.

22. (Original) A system according to claim 21, wherein the certificate-based domain comprises a Kerberos-enabled domain.

23. (Original) A system according to claim 22, wherein the matching protocol comprises an X.509 certificate.

24. (Original) A system according to claim 17, wherein the security authorization request is generated by the external node.

25. (Original) A system according to claim 24, wherein the security authorization request is received by the internal node.

26. (Original) A system according to claim 17, wherein the security authorization request is generated by the internal node.

27. (Original) A system according to claim 26, wherein the security authorization request

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is received by the external node.

28. (Original) A system according to claim 17, wherein the negotiation engine terminates the secure connection when a session between the external node and the internal node is complete.

29. (Original) A system according to claim 17, wherein the negotiation engine terminates connection processing when no match between the first protocol set and the second protocol set is found.

30. (Original) A system according to claim 17, wherein the negotiation engine selects a protocol to use in establishing the secure connection when a plurality of matching protocols are found.

31. (Original) A system according to claim 17, wherein at least one of the internal node and the external node authenticates the other.

32. (Original) A system according to claim 31, wherein the authenticating comprises communicating a certificate to a certificate authority.

33-48. (Cancelled)

49. (Currently Amended) One or more ~~tangible~~ computer-readable storage media medium having computer-executable instructions embodied thereon, the computer-executable instructions being configured to execute a method for automatically negotiating a security protocol, the method comprising:
receiving a security authorization request to establish a secure connection between an internal node within a security-enabled domain comprising a centralized distributed directory that maintains security information for a plurality of nodes, and an external

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node is not included within the software-based, directory of nodes; wherein:

(1) the internal node stores a first protocol set identifying one or more security protocols supported by the internal node, and

(2) the external node stores a second protocol set identifying security protocols supported by the external node;

comparing the first protocol set associated with the internal node to the second protocol set associated with the external node;

determining that the first protocol set and the second protocol set contain two or more security protocols in common;

selecting a preferred protocol from the two or more security protocols based on transfer speeds associated with the two or more security protocols, and bit depths of one or more encryption keys,

wherein the transfer speeds refer to the speeds that network data can be transferred using the two or more security protocols; and

the bit depths of one or more encryption keys include the number of bits constituting the one or more encryption keys;

automatically establishing a secure connection between the external node and the internal node based on the selected protocol.

50. (Currently Amended) The one or more computer-readable ~~media~~ medium of claim 49, wherein the external node comprises at least one of a computer and a network-enabled wireless device.

51. (Currently Amended) The one or more computer-readable ~~media~~ medium of claim

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49, wherein the internal node comprises at least one of a client computer and a server.

52. (Currently Amended) The one or more computer-readable ~~media~~ medium of claim

49, wherein the security-enabled domain comprises a distributed directory domain.

53. (Currently Amended) The one or more computer-readable ~~media~~ medium of claim

49, wherein the security-enabled domain comprises a certificate-based domain.

54. (Currently Amended) The one or more computer-readable ~~media~~ medium of claim

53, wherein the certificate-based domain comprises a Kerberos-enabled domain.

55. (Currently Amended) The one or more computer-readable ~~media~~ medium of claim

54, wherein the matching protocol comprises an X.509 certificate.

56. (Currently Amended) The one or more computer-readable ~~media~~ medium of claim

49, wherein the step of generating a security authorization request is executed by the external node.

57. (Currently Amended) The one or more computer-readable ~~media~~ medium of claim

56, wherein the step of receiving the security authorization request is executed by the internal node.

58. (Currently Amended) The one or more computer-readable ~~media~~ medium of claim

49, wherein the step of generating a security authorization request is executed by the internal node.

59. (Currently Amended) The one or more computer-readable ~~media~~ medium of claim

58, wherein the step of receiving the security authorization request is executed by the external node.

60. (Currently Amended) The one or more computer-readable ~~media~~ medium of claim

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49, wherein the method further comprises a step of terminating the secure connection when a session between the external node and the internal node is complete.

61. (Canceled).

62. (Currently Amended) The one or more computer-readable ~~media~~ medium of claim 49, wherein the method further comprises a step of selecting a protocol to use in establishing the secure connection when a plurality of matching protocols are found.

Allowable Subject Matter

2. Claims 1-12, 14-32, 49-60, and 62 are allowed. The following is an examiner's statement of reasons for allowance: In interpreting the claims, in light of the Specification and the applicant's amendments filed on 10/09/2008, the Examiner finds the claimed invention to be patentably distinct from the prior art of record.

3. Heilig et al (US patent Pub. 20020078371) is concerned establishing the secure connection between an internal node and external node by comparing plurality of security protocols and select the protocol that matches between these two nodes.

4. Roddy et al (US patent 6,845,452) is concerned the security enabled domain should be certificate based domain, Kerberos based domain and encryption keys.

5. However the totality of each element and/or step in claims 1-12, 14-32, 49-60, and 62 are not alluded to in the combined art of Heilig and Roddy. Their teachings either individually or in combination failed to teach or suggest the method recited in claim 1. More specifically, the combination of Heilig and Roddy does not teach or

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suggest "the internal node is within a security-enabled domain comprising a centralized distributed directory that maintains security information for a plurality of nodes; and the external node is not included within the software-based, directory of nodes" as recited in claim 1. Similarly, the combination of Heilig and Roddy does not teach or suggest " selecting a preferred protocol from the two or more security protocols based on transfer speeds associated with the two or more security protocols, and bit depths of one or more encryption keys, wherein the transfer speeds refer to the speeds that network data can be transferred using the two or more security protocols; the bit depths of one or more encryption keys include the number of bits constituting the one or more encryption keys;" as recited in claim 1. Accordingly, claim 1, and 17, and 49 is allowable over the combination of Heilig and Roddy. So, Claims 1-12, 14-32, 49-60, and 62 are allowable by virtue of their dependency upon claim 1, and 17, and 49 and also due to additional limitations recited in these claims. Therefore, for the foregoing reasons, examiner withdraws of the rejection of claims 1-12, 14-32, 49-60, and 62 under 35 USC §103(a) as being obvious over Heilig in view of Roddy.

7. However, the prior art of record fails to teach or suggest some of the steps of the present claim invention. Examiner performed an updated search and unable to find any prior art to disclose all the steps mentioned in the independent claims.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

9. Claims 1-12, 14-32, 49-60, and 62 are patentable.
10. Claims 13, 33-48, and 61 are cancelled.
11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad w. Reza whose telephone number is 571-272-6590. The examiner can normally be reached on M-F (9:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MOAZZAMI NASSER G can be reached on (571)272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Nasser G Moazzami/

Supervisory Patent Examiner, Art Unit 2436

/Mohammad W Reza/

Examiner, Art Unit 2436